

**Table 3: Seasonal Increase in Mortality in the Winter<sup>1,2</sup> and the Increased Winter Mortality index<sup>3,4</sup>, by age-group and NHS Board<sup>5</sup> area of usual residence, 2002/03 to 2011/12**

**Scotland**

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	2,510	350	300	940	920	14	9	8	16	19
2003/04	2,840	320	510	840	1,170	16	9	13	14	25
2004/05	2,760	200	430	1,030	1,090	15	5	12	18	23
2005/06	1,780	330	280	550	610	10	9	8	10	13
2006/07	2,750	190	410	980	1,180	16	5	12	18	24
2007/08	2,180	130	320	880	850	12	3	9	16	17
2008/09	3,510	370	590	1,170	1,370	21	10	18	22	28
2009/10	2,760	460	370	890	1,040	16	13	11	17	21
2010/11	2,450	410	430	720	890	14	12	13	14	17
2011/12 (P)	1,420	230	110	440	650	8	7	3	8	12

**Ayrshire & Arran**

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	170	20	30	60	70	12	7	8	12	18
2003/04	230	20	50	50	110	16	7	17	9	28
2004/05	260	10	70	80	100	19	5	25	17	27
2005/06	150	60	40	0	50	10	21	14	1	12
2006/07	220	40	30	60	90	16	14	10	14	24
2007/08	140	-10	30	40	90	10	.	9	8	23
2008/09	380	30	50	160	140	29	11	19	42	35
2009/10	190	10	10	90	70	14	4	5	23	19
2010/11	200	20	30	70	90	15	6	13	15	22
2011/12 (P)	70	-10	20	60	-10	5	.	9	16	.

**Borders**

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	40	10	0	10	20	9	9	4	6	15
2003/04	40	-10	10	10	30	9	.	14	9	17
2004/05	60	0	10	20	30	15	1	20	15	21
2005/06	60	0	10	20	30	14	.	16	13	22
2006/07	60	10	0	10	30	15	18	5	10	24
2007/08	80	20	10	0	40	19	32	19	0	36
2008/09	100	10	20	40	30	24	15	23	34	21
2009/10	50	-10	10	20	30	12	.	9	18	25
2010/11	70	10	20	10	30	19	21	39	6	22
2011/12 (P)	40	-10	20	20	10	9	.	26	19	4

**Dumfries & Galloway**

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	80	20	10	10	50	14	15	8	7	27
2003/04	30	0	20	0	10	5	.	16	2	8
2004/05	70	0	20	30	20	12	.	18	15	10
2005/06	60	20	30	-10	20	10	17	28	.	13
2006/07	60	0	10	30	20	10	4	5	14	11
2007/08	90	30	10	30	20	16	37	7	13	15
2008/09	140	20	30	40	40	25	23	29	25	24
2009/10	100	10	10	30	50	18	12	12	17	27
2010/11	50	20	10	10	20	8	17	7	4	9
2011/12 (P)	20	-20	-20	10	40	3	.	.	6	19

**Fife**

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	90	30	10	40	20	7	12	2	8	6
2003/04	150	-10	20	10	130	12	.	6	2	38
2004/05	250	30	20	120	90	21	13	8	27	25
2005/06	40	10	-30	30	30	4	4	.	8	10
2006/07	150	-10	20	70	80	12	.	6	18	21
2007/08	210	10	10	80	110	17	3	3	21	33
2008/09	280	10	60	80	130	23	6	25	21	36
2009/10	190	30	40	60	60	16	14	17	16	16
2010/11	90	30	-10	50	20	7	13	.	12	6
2011/12 (P)	120	20	50	-10	60	10	8	23	.	15

### Forth Valley

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	120	-30	30	80	50	13	.	12	25	19
2003/04	180	30	30	40	70	18	16	16	13	28
2004/05	170	20	50	80	30	18	8	24	25	12
2005/06	180	0	40	70	70	19	2	21	22	27
2006/07	150	30	10	20	90	16	14	8	7	34
2007/08	110	20	-10	40	50	12	9	.	15	21
2008/09	280	40	40	90	110	32	21	24	32	45
2009/10	100	20	20	-10	60	11	14	10	.	24
2010/11	140	30	30	30	40	15	17	18	11	17
2011/12 (P)	60	0	-10	40	30	7	.	.	14	10

### Grampian

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	280	60	0	110	110	17	17	0	20	23
2003/04	320	20	40	150	110	20	7	14	28	24
2004/05	250	20	60	80	90	15	7	20	14	19
2005/06	130	0	30	30	70	8	0	9	6	14
2006/07	380	40	10	140	200	23	12	4	26	40
2007/08	250	20	50	100	70	15	7	16	19	14
2008/09	270	20	50	60	150	16	5	16	11	30
2009/10	210	40	30	50	100	13	12	10	9	18
2010/11	250	20	40	80	120	15	6	15	15	22
2011/12 (P)	180	40	10	70	70	11	14	2	13	12

### Greater Glasgow & Clyde<sup>5</sup>

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	820	180	140	190	310	18	17	13	13	30
2003/04	670	100	150	190	230	15	9	15	13	22
2004/05	610	20	40	280	270	13	2	4	20	26
2005/06	450	130	50	120	160	10	13	5	8	15
2006/07	770	50	140	280	290	18	5	16	21	28
2007/08	600	30	90	260	210	14	3	10	20	20
2008/09	800	110	150	200	330	19	11	19	16	31
2009/10	570	120	70	220	160	14	13	8	18	15
2010/11	610	130	100	160	230	15	14	12	13	21
2011/12 (P)	250	40	30	50	130	6	5	4	4	11

### Highland<sup>5</sup>

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	90	0	10	70	20	8	.	5	19	6
2003/04	140	40	-20	60	60	12	16	.	16	19
2004/05	140	0	20	20	100	13	1	8	5	38
2005/06	80	20	-20	50	20	7	11	.	16	6
2006/07	190	30	30	60	70	16	12	12	18	21
2007/08	80	0	0	-10	80	7	0	1	.	26
2008/09	150	0	40	30	70	13	1	18	10	23
2009/10	200	40	30	50	80	19	20	13	15	25
2010/11	110	10	40	20	40	10	3	22	6	12
2011/12 (P)	90	20	-10	40	40	8	10	.	11	11

### Lanarkshire

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	250	30	30	120	60	13	7	8	21	14
2003/04	400	60	30	160	150	22	14	8	26	38
2004/05	280	30	70	120	60	15	6	17	18	15
2005/06	290	60	50	110	70	15	13	14	19	15
2006/07	210	-10	80	80	60	11	.	21	13	13
2007/08	240	-10	40	160	50	13	.	10	28	10
2008/09	470	80	80	190	120	26	20	22	33	27
2009/10	430	110	60	140	120	23	27	14	25	26
2010/11	280	50	70	70	100	15	13	17	11	21
2011/12 (P)	210	50	-20	80	100	11	13	.	13	18

### Lothian

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	360	50	0	170	140	14	10	.	20	19
2003/04	400	20	80	110	190	16	5	16	13	29
2004/05	390	60	70	90	170	16	12	15	11	25
2005/06	230	30	20	130	50	9	5	5	17	7
2006/07	270	0	20	120	120	11	1	4	16	18
2007/08	220	10	50	90	70	9	3	13	11	9
2008/09	420	30	70	170	150	18	5	17	24	20
2009/10	380	40	60	110	170	17	9	14	15	25
2010/11	390	90	50	150	100	17	19	11	22	14
2011/12 (P)	210	80	10	30	90	8	16	2	4	11

## Orkney

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	10	0	10	0	0	10	.	42	18	0
2003/04	10	0	10	0	0	20	23	71	12	2
2004/05	40	10	0	10	20	66	82	43	49	84
2005/06	-10	0	-10	0	0	.	22	.	.	2
2006/07	10	0	10	-10	10	9	.	57	.	49
2007/08	0	0	-10	10	0	1	16	.	30	13
2008/09	10	0	10	-10	10	14	9	42	.	51
2009/10	0	0	0	0	0	.	9	.	8	.
2010/11	10	10	0	10	0	19	58	.	37	11
2011/12 (P)	-10	0	0	-10	0	.	5	4	.	19

## Shetland

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	-10	0	0	0	-10	.	.	14	2	.
2003/04	10	0	0	10	0	11	10	12	26	.
2004/05	0	0	-10	0	0	.	.	.	29	12
2005/06	20	0	10	0	10	29	20	131	.	47
2006/07	20	10	10	0	10	32	47	55	14	28
2007/08	10	0	0	10	0	10	4	.	50	5
2008/09	0	-10	0	0	10	2	.	29	.	28
2009/10	10	0	0	0	10	17	29	.	12	28
2010/11	10	0	0	10	0	17	36	25	43	.
2011/12 (P)	-10	0	0	0	0	.	.	.	.	.

## Tayside

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	210	10	40	80	80	14	3	14	16	18
2003/04	260	40	80	50	90	17	17	27	10	20
2004/05	240	10	10	110	120	17	3	3	23	28
2005/06	80	10	50	0	20	5	2	19	.	6
2006/07	280	10	60	110	110	20	2	24	25	24
2007/08	150	-20	50	60	50	10	.	19	14	11
2008/09	220	40	0	90	100	16	15	.	21	21
2009/10	300	30	50	100	130	22	11	20	24	28
2010/11	220	0	40	70	110	16	0	17	16	24
2011/12 (P)	180	10	20	70	80	12	4	8	16	16

## Western Isles

	Seasonal Increase in Mortality in the Winter <sup>1,2</sup>					Increased Winter Mortality Index <sup>3,4</sup>				
	All ages	0-64	65-74	75-84	85+	All ages	0-64	65-74	75-84	85+
2002/03	-10	0	-10	10	-10	.	.	.	15	.
2003/04	0	10	0	-10	0	.	25	5	.	1
2004/05	10	0	0	10	0	13	0	24	29	0
2005/06	20	0	0	10	20	18	.	5	21	45
2006/07	-10	-10	-10	10	0	.	.	.	20	8
2007/08	10	10	0	20	-10	5	23	.	48	.
2008/09	10	-10	0	20	-10	8	.	12	61	.
2009/10	40	10	10	20	0	35	53	29	84	.
2010/11	0	0	0	0	-10	.	.	24	3	.
2011/12 (P)	30	10	10	0	10	20	53	22	.	29

### Footnotes

1) The Seasonal Increase in Mortality in the winter has been defined as the difference between the number of deaths in the four 'winter' months (December - March) and the average of the numbers of deaths in the preceding (August - November) and following (April - July) non-winter 4-month periods. A negative figure occurs when there were fewer deaths during the winter period than the average of the two 'non-winter' periods.

2) Because of the approximate nature of this measure, numbers have been rounded independently to the nearest 10. The sum of the age group figures may therefore appear to differ from the 'all ages' total.

3) The Increased Winter Mortality (IWM) Index is the (unrounded) number of 'additional' winter deaths divided by the (unrounded) average number of deaths in a four month 'non-winter' period, expressed as a percentage.

4) The IWM Index has not been calculated when the number of 'additional' winter deaths was negative.

5) Figures for 'Greater Glasgow & Clyde' and 'Highland' include deaths in the relevant parts of the former NHS Argyll and Clyde area.

(P) Data for the latest year are provisional.